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CURRICULUM VITAE

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EDUCATION:

2000 - 2004 B.S., Huazhong University of Science and Technology, Wuhan, China
2004 - 2007 M.S., Chinese Academy of Sciences, Wuhan, China
2007 - 2012 Ph.D., University of North Carolina at Chapel Hill, Chapel Hill, NC

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

2012 - 2021 Postdoctoral Fellow, University of California Los Angeles, Los Angeles, CA
2021 - 2025 Principal Scientist, Arrakis Therapeutics, Waltham, MA

FACULTY APPOINTMENTS:

2025 - Present Assistant Professor, Biophysics, Medical College of Wisconsin, Milwaukee, WI 53226
2025 - Present Assistant Professor, Obstetrics & Gynecology, Medical College of Wisconsin, Milwaukee, WI 53226

CENTER/INSTITUTE AFFILIATIONS:

2025 - Present Member, Cancer Center
2026 - Present Member, Cardiovascular Research Center

AWARDS AND HONORS:

2026 Career Development Award, American Heart Association

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

2018 - Present RNA Society (Member)
2025 - Present American Crystallographic Association (Member)
2025 - Present American Heart Association (Member)

EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:

Ad-Hoc Reviewer
2020 - Present Advanced Drug Delivery Reviews
2024 - Present Magnetic Resonance Letters
2025 - Present Smart Medicine
2025 - Present Journal of Chemical Information and Modeling

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:

Active

Peer Review

Title: Structural Basis of RNA Recognition by

	Small Molecules: Foundations for RNA-Targeted Therapeutics
Source:	MCW Research Affairs Committee
Role & Effort:	Principal Investigator
Dates:	01/01/2026 - 12/31/2026
Title:	Structural Basis of CUG-Repeat Recognition by Muscleblind-like Proteins in Myotonic Dystrophy–Associated Cardiomyopathy
Source:	American Heart Association
Role & Effort:	Principal Investigator
Dates:	04/01/2026 - 03/31/2029

Non-Peer Review

Title:	Chordoma Foundation Pilot Grant
Source:	Chordoma Foundation
Role & Effort:	Principal Investigator
Dates:	06/01/2026 - 05/30/2027

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

International

NMR Spectroscopy in RNA Drug Discovery, Bruker Webinar, Online, 01/30/2024

FBDD against RNA Targets, Drug Discovery chemistry, San Diego, 04/03/2024

Structure-Based Approach to Screen and Characterize RNA-Targeted Small Molecules, Discovery on Target, Boston, 10/01/2024

Isotopic Labeling Strategies for RNA-Targeted Drug Discovery, ISOTOPE DAYS, Online, 09/18/2025

NMR Spectroscopy in RNA Drug Discovery, RNA-Targeted Drug Discovery & Development Summit 2025, Boston, 12/02/2025

Regional

Drugging Dynamic RNA Conformations with Small Molecules, 10th Gateway NMR Conference, Michigan State University, East Lansing, 10/03/2026

Local

Structural Biology of Noncoding RNAs in Cancer and Rare Diseases, Pancreas Club, Medical College of Wisconsin, Milwaukee, 03/12/2026

Structural Biology of Noncoding RNAs: From Molecular Mechanisms to Therapeutic Opportunities, Cancer Biology Seminar Series, Medical College of Wisconsin, Milwaukee, 10/09/2026

EXTRAMURAL STUDENTS, FACULTY, RESIDENTS, AND CLINICAL/RESEARCH FELLOWS MENTORED:

Postdoctoral Researchers

2025 - Present Riley Petersen, University of Wisconsin at Madison, PhD 2025

2026 - Present Paul Kremer, University of Georgia, PhD 2024

COMMUNITY SERVICE ACTIVITIES:

2022 - Present RNA Society Award Committee

BIBLIOGRAPHY

Refereed Journal Publications/Original Papers

1. Lu XJ, **Wang Y**. Structural Pockets and Interacting RNA-Associated Ligands (SPIRAL): A DSSR-enabled

Meta-Analysis of RNA-Small Molecule Recognition. bioRxiv. 2026 Jun 23. PMCID: PMC13228370
2. Petersen RJ, **Wang Y**. NMR-Based Fragment Screening for RNA-Targeted Drug Discovery. Molecules. 2026 Mar 10;31(6). PMCID: PMC13029659
3. Yang Y, Murrali MG, Galvan S, **Wang Y**, Stephen C, Ajjampore N, Wang X, Feigon J. HEXIM1 inter-monomer autoinhibition governs 7SK RNA binding specificity and P-TEFb inactivation. Nat Commun. 2026 Jan 15;17(1):1570. PMCID: PMC12901311
4. **Wang Y**, He Y, **Wang Y**, Yang Y, Singh M, Eichhorn CD, Cheng X, Jiang YX, Zhou ZH, Feigon J. Structure of LARP7 Protein p65-telomerase RNA Complex in Telomerase Revealed by Cryo-EM and NMR. J Mol Biol. 2023 Jun 01;435(11):168044. PMCID: PMC10988774
5. He Y, Song H, Chan H, Liu B, **Wang Y**, Sušac L, Zhou ZH, Feigon J. Structure of Tetrahymena telomerase-bound CST with polymerase ?-primase. Nature. 2022 Aug;608(7924):813-818. PMCID: PMC9728385
6. Liu B, He Y, **Wang Y**, Song H, Zhou ZH, Feigon J. Structure of active human telomerase with telomere shelterin protein TPP1. Nature. 2022 Apr;604(7906):578-583. PMCID: PMC9912816
7. He Y, **Wang Y**, Liu B, Helmling C, Sušac L, Cheng R, Zhou ZH, Feigon J. Structures of telomerase at several steps of telomere repeat synthesis. Nature. 2021 May;593(7859):454-459. PMCID: PMC8857963
8. Lu X, Li M, Arce FA, Ling J, Setiawan N, **Wang Y**, Shi X, Campbell HR, Nethercott MJ, Xu W, Munson EJ, Marsac PJ, Su Y. Mechanistic Investigation of Drug Supersaturation in the Presence of Polysorbates as Solubilizing Additives by Solution Nuclear Magnetic Resonance Spectroscopy. Mol Pharm. 2021 Dec 06;18(12):4310-4321.
9. **Wang Y**, Gallagher-Jones M, Sušac L, Song H, Feigon J. A structurally conserved human and Tetrahymena telomerase catalytic core. Proc Natl Acad Sci U S A. 2020 Dec 08;117(49):31078-31087. PMCID: PMC7733840
10. **Wang Y**, Sušac L, Feigon J. Structural Biology of Telomerase. Cold Spring Harb Perspect Biol. 2019 Dec 02;11(12). PMCID: PMC6886448
11. Yang Y, Eichhorn CD, **Wang Y**, Cascio D, Feigon J. Structural basis of 7SK RNA 5'-?-phosphate methylation and retention by MePCE. Nat Chem Biol. 2019 Feb;15(2):132-140. PMCID: PMC6339579
12. Jiang J, **Wang Y**, Sušac L, Chan H, Basu R, Zhou ZH, Feigon J. Structure of Telomerase with Telomeric DNA. Cell. 2018 May 17;173(5):1179-1190.e13. PMCID: PMC5995583
13. **Wang Y**, Feigon J. Structural biology of telomerase and its interaction at telomeres. Curr Opin Struct Biol. 2017 Dec;47:77-87. PMCID: PMC5564310
14. Chan H, **Wang Y**, Feigon J. Progress in Human and Tetrahymena Telomerase Structure Determination. Annu Rev Biophys. 2017 May 22;46:199-225. PMCID: PMC5508521
15. **Wang Y**, Yesselman JD, Zhang Q, Kang M, Feigon J. Structural conservation in the template/pseudoknot domain of vertebrate telomerase RNA from teleost fish to human. Proc Natl Acad Sci U S A. 2016 Aug 30;113(35):E5125-34. PMCID: PMC5024593
16. Shen K, **Wang Y**, Hwang Fu YH, Zhang Q, Feigon J, Shan SO. Molecular mechanism of GTPase activation at the signal recognition particle (SRP) RNA distal end. J Biol Chem. 2013 Dec 20;288(51):36385-97. PMCID: PMC3868752
17. **Wang Y**, Benton LA, Singh V, Pielak GJ. Disordered Protein Diffusion under Crowded Conditions. J Phys Chem Lett. 2012 Sep 20;3(18):2703-2706. PMCID: PMC3505085
18. **Wang Y**, Sarkar M, Smith AE, Krois AS, Pielak GJ. Macromolecular crowding and protein stability. J Am Chem Soc. 2012 Oct 10;134(40):16614-8.
19. Schlesinger AP, **Wang Y**, Tadeo X, Millet O, Pielak GJ. Macromolecular crowding fails to fold a globular protein in cells. J Am Chem Soc. 2011 Jun 01;133(21):8082-5. PMCID: PMC3102155
20. Miklos AC, Sarkar M, **Wang Y**, Pielak GJ. Protein crowding tunes protein stability. J Am Chem Soc. 2011 May 11;133(18):7116-20.
21. **Wang Y**, Li C, Pielak GJ. Effects of proteins on protein diffusion. J Am Chem Soc. 2010 Jul 14;132(27):9392-7. PMCID: PMC2898919
22. Li C, Wang GF, **Wang Y**, Creager-Allen R, Lutz EA, Scronce H, Slade KM, Ruf RA, Mehl RA, Pielak GJ. Protein (19)F NMR in Escherichia coli. J Am Chem Soc. 2010 Jan 13;132(1):321-7. PMCID: PMC2815348
23. Li C, **Wang Y**, Pielak GJ. Translational and rotational diffusion of a small globular protein under crowded conditions. J Phys Chem B. 2009 Oct 08;113(40):13390-2. PMCID: PMC2774775
24. Li CX, **Wang Y**, Gao H, Pan WJ, Xiang Y, Huang M, Lei H. Cerebral metabolic changes in a depression-like rat model of chronic forced swimming studied by ex vivo high resolution 1H magnetic resonance

spectroscopy. Neurochem Res. 2008 Nov;33(11):2342-9.
25. Gao H, Xiang Y, Sun N, Zhu H, **Wang Y**, Liu M, Ma Y, Lei H. Metabolic changes in rat prefrontal cortex and hippocampus induced by chronic morphine treatment studied ex vivo by high resolution 1H NMR spectroscopy. Neurochem Int. 2007 Jan;50(2):386-94.